

IN THE CLAIMS

Please amend the claims to read as follows:

Listing of Claims

1-20. (Cancelled).

21. (Currently Amended) A transmitting apparatus that transmits pilot signals to a plurality of user equipments, the transmitting apparatus comprising:

a generator configured to generate a signal including pattern information indicating which pilot pattern among at least two pilot patterns is respectively assigned to each time slot of a plurality of time slots, each of the pilot patterns representing an mutually different arrangement densities of pilot signals in at least one of a frequency domain and a time domain, at least two of the time slots being assigned different pilot patterns from among ones of the at least two pilot patterns; and

a transmitter configured to transmit broadcast the signal to the plurality of user equipments, and to transmit the pilot signals according to the pilot patterns respectively assigned to the time slots.

22. (Currently Amended) The transmitting apparatus according to claim 21, further comprising:

a selector configured to select the pilot pattern assigned to the each time slot based on at least one of (A) parameters concerning interference by multipath, (B) parameters reflecting a propagation environment, and (C) parameters reflecting a delay dispersion.

23. (Previously Presented) The transmitting apparatus according to claim 21, further comprising:

a multiplexer configured to multiplex the pilot signals of the pilot patterns and user data according to the pattern information to generate a multiplexed signal, wherein:
the transmitter is configured to transmit the multiplexed signal.

24. (Cancelled)

25. (Currently Amended) A transmitting method of transmitting pilot signals from a transmitting apparatus to a plurality of user equipments, the transmitting method comprising:
generating a signal including pattern information indicating which pilot pattern among at least two pilot patterns is respectively assigned to each time slot of a plurality of time slots, each of the pilot patterns representing an mutually different arrangement densities of pilot signals in at least one of a frequency domain and a time domain, at least two of the time slots being assigned different pilot patterns from among ones of the at least two pilot patterns; and
broadcasting the signal to the plurality of user equipments; and
transmitting the pilot signals according to the pilot patterns respectively assigned to the time slots.

26. (Cancelled)

27. (Currently Amended) An integrated circuit that controls transmission of pilot signals

to a plurality of user equipments, the integrated circuit comprising:

a generator configured to control a process of generating a signal including pattern information indicating which pilot pattern among at least two pilot patterns is respectively assigned to each time slot of a plurality of time slots, each of the pilot patterns representing ~~an~~ mutually different arrangement densities of pilot signals in at least one of a frequency domain and a time domain, at least two of the time slots being assigned different pilot patterns from among ones of the at least two pilot patterns; and

a controller configured to control a process of broadcasting transmitting the signal to the plurality of user equipments, and transmitting the pilot signals according to the pilot patterns respectively assigned to the time slots.

28. (Cancelled)

29. (Previously Presented) A base station comprising the transmitting apparatus according to claim 21.